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Two new species of the *Coenosia albicornis* group from China (Diptera: Muscidae)

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Abstract: This paper describes two new species of *Coenosia* from China, namely *C. unpunctata* sp. nov. and *C. unguiligentilis* sp. nov., both of them belonging to the *C. albicornis*-group in sharing the following characters: antenna short, male epiphallus weak, cerci and surstyli slender and longer. Type specimens are kept in Shenyang Normal College.

Key words: Diptera; Muscidae; *Coenosia*; new species; China

Coenosia unpunctata sp. nov. (Figs. 1~2)

♂ Body length 5.5 mm.

Head: compound eyes bare, lower posterior margin not concave forward, frons at vertex nearly 1/3 of head width, lateral margins of frons parallel, interfrontalia black in ground-colour, black pruinose, about 3 times of a parafrontalia width, frontal triangle narrow, light grey pruinose, reaching middle to 2/5 lower part of frons; ocellar bristles longer than width of frons, without outer vertical bristle, *pvt* bristles shorter than ocellar bristles, one pair of *ors* and 3 pairs of *ori*, parafrontalia and genae grey to light-grey pruinose, parafacialia greyish-yellow pruinose, width of parafacialia slightly narrower than 1/2 that of third antennal segment, antennae brown to dark brown, length of 3rd segment about 2.5 times of its width (2 times of 2nd segment length) lower margin round and falling short of lower margin of epistoma by about half length of second segment, arista with very short ciliae, length of cilia about the width of arisal base, epistoma not exerted, vibrissal angle behind frontal angle, genal height about 1/8 of eye-height, palpus yellow, as long as prementum, proboscis short and small, with one pair of big and two pairs of small denticles of proboscis.

Thorax: ground-colour black, grey pruinose, scutum with 3 dark-brown vittae, the two lateral vittae lie on the lines of *dc* bristles, median vitta broader, reaching acutellar sulcus, basal and apical scutellar bristles developed well, *ac* setaceous in two rows, *dc* 1+3, *ia* 0+1, 2 propleural bristles and 2 prostigmal bristles, three *stpl* bristles in isosceles triangular position. Wings: slightly transparent, basicosta orange, costal spine absent, costa continuing to the apex of m_{1+2}

vein, squamae light yellow, length of lower one about $1/2$ that of the upper one, halteres yellow. Legs: fore coxa and tarsus brown, mid and hind tarsi dark-brown, trochanters and main part of femora yellow, mid coxa and hind coxa yellow, apical part of fore tibia orange while mainly yellow, apical part of mid and hind tibiae brown but basal part yellow, femora with dark-brown circle on $1/4$ to $1/3$ of apical part, tarsi obviously shorter than each tibia, pulvilli shorter than claws, fore tibia with a long medial *pd* bristle, mid femur with distinct submedial and sub-basal *av* bristles, basal half with a row of anterior setae obviously, $2/3$ basal part with 6 long *pv* bristles, one pre-apical *a* bristle and two pre-apical *pd* bristles, mid tibia with one sub-medial *ad* bristle, one medial *pd* bristle, hind femur with a row of uneven *av* bristles, a row of *pv* bristles more regular than *av* bristles, hind tibia with a submedial *av* bristle, a long medial *ad* bristle, one pre-apical *d* bristles, one short medial *pd* bristle (another tibia with a pre-medial *pv* bristle).

Abdomen: Long-cylindrical form in dorsal view, and 1st abdominal segment flat-cylindrical form, ground-colour black, with thin grey to blue-grey pruinosity, dorsal surface slightly bright, without vitta, each tergite with narrow yellow posterior margin, lateral bristles on each tergite long, 3rd to 5th tergites with long discal bristles and marginal bristles, 1st sternite with 5 to 6 small hairs.

♀ Unknown.

Holotype ♂: Zhougong Mountain, Yaan ($30^{\circ} 00' N$, $102^{\circ} 57' E$), Sichuan Province, 1 300 m, Sept. 24, 1985, by Feng Yan.

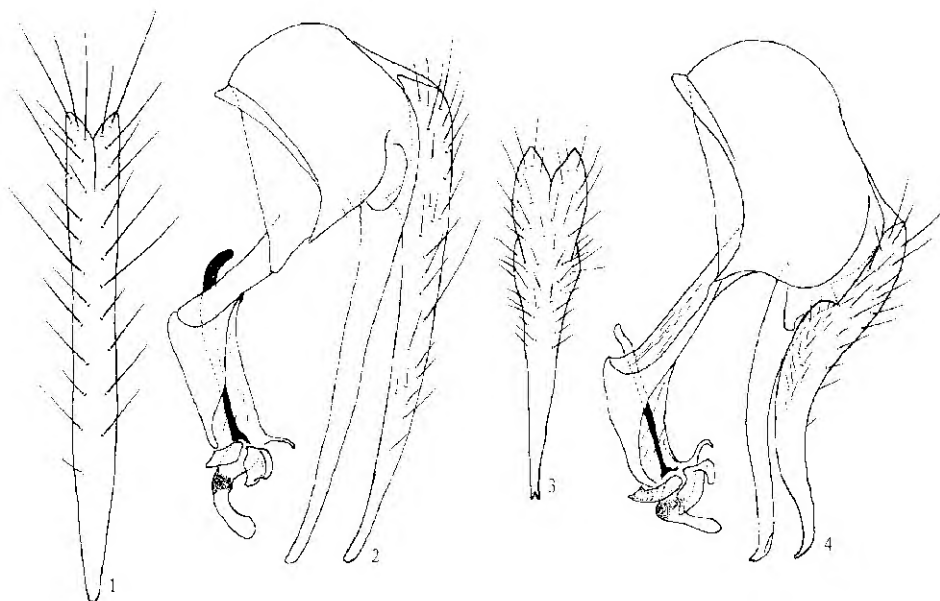
This new species resembles *Coenosia octopunctata* (Zetterstedt, 1838)^[1,2], but differs from the latter by having yellowish palpi, without vitta on abdomen, lateral lobe of 5th sternite neither broader nor bigger.

Coenosia unguiligentilis sp. nov. (Figs.3~4)

♂ Body length 3.5 mm.

Head: Compound eyes bare, lower-posterior margin not concave forward, frons at vertex 0.37 of head width, slightly broadening from vertex to lunula, interfrontalia orange, 2.5 times of a parafrontalia width, frontal triangle with grey pruinosity, reaching middle of frons, ocellar bristles missed, may not be longer than frons width, but longer than *pvt* bristles according size of its basic trace, outer vertical bristles absent, 1 pair of *ors* and 3 pairs of *ori*; parafrontalia light grey pruinose, parafacialia and genae greyish-yellow pruinose, medial part of parafacialia about $1/2$ of 3rd antennal segment width; antennae brown to dark brown, apical margin of 2nd segment yellow, length of 3rd segment 2.5 times of its width (2 times of 2nd segment length), apical margin round, and falling short of mouth-margin by about $2/3$ of its length, arista with short ciliae, cilia length not exceeding width of arista base, lower margin of epistoma not exserted, vibrissal angle behind frontal angle, genal height nearly $1/8$ of eye-height; palpus brown, as long as prementum, length of prementum 3 times of its depth.

Thorax: Ground-colour black, grey pruinose, scutum without vitta, *ac* setaceous in two



Figs. 1~4 *Coenosia unpunctata* sp. nov. ♂ (1~2) and *C. unguligentilis* sp. nov. ♂ (3~4)

图 1~4 寡斑秽蝇新种 (雄, 1~2) 和鹰爪秽蝇 (雄, 3~4)

1, 3. posterior view of cerci 肛尾叶后面; 2, 4. lateral view of terminalia 尾器侧面

rows, *dc* 1+3, length of the small bristle ahead of anterior *dc* about 2/7 that of anterior *dc*, *ia* 0+1, basal and apical scutellar bristles developed well, 2 propleural bristles and 2 prostigmal bristles, three *stpl* arranged as regular triangle. Wings: slightly transparent, basicosta yellow, costal spine distinct, costa continuing to the apex of m_{1+2} vein, squamae light yellow, the lower one extended out, about 1.5 times length of upper one; halter yellow. Legs: tarsi orange, other segments yellow, dorsal surface of fore femur brown, mid and hind femora with brown circle on 1/4 apical part, tarsus longer than tibia on fore legs, as long as tibia on mid and hind legs, 4th tarsomere of every leg unshortened, claw as long as pulvilli; fore tibia with one small medial *p* bristle (the other legs without); basal half of mid femur with a row of *a* bristles, without *av* bristle but 3 sub-basal setae, 3/5 of basal part with 4 long *pv* bristles, 2 apical *pd* bristles, mid tibia with one short medial *pd* bristle, without other bristles; hind femur with a row of unconnected *av* bristles, the sub-basal one and submedial one developed well, basal, pre-medial and submedial with one *pv* bristle separately, hind tibia with one small submedial *av* bristle, one short medial *ad* bristle, one pre-apical *d* bristle, without *pd* bristle.

Abdomen: Flat-cylindrical, ground-colour black, grey pruinose, 3rd to 5th tergites each with a pair of orange vittae, vitta width subequal to the distance between vittae, ventral margin of tergites and posterior margin of 5th tergite yellow, 1st sternite bare, 5th sternite just below 4th and 5th abdominal segments.

♀ Unknown.

Holotype ♂, South suburb of Yaan (30°00'N, 102°57'E) Sichuan Province, 590 m, Mar. 11, 1985, by Shi Ping.

This new species is closely related to *Coenosia albicornis* Meigen, 1826^[3,4], but is distinguished from the latter by having following characters: interfrontalia orange, antennae and palpi brown, width of parafacilia about 1/2 of third antennal segment, without mesonotal vitta, mid femur without distinct *av* bristle; distal half of male cerci slender in posterior view, apical part of surstyli curved forward.

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中国白角秽蝇种团二新种 (双翅目: 蝇科)

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摘要: 报道了采自我国四川省雅安的蝇科秽蝇属二新种, 均具触角较短、雄蝇阳基后突较弱、肛尾叶和侧尾叶细长等特征, 应隶属白角秽蝇种团 (*Coenosia albicornis*-group), 模式标本保存于沈阳师范学院生物系。寡斑秽蝇 *Coenosia unpunctata* 新种, 雄蝇下颏须黄色, 腹部无斑条, 第5腹板侧叶不宽大。鹰爪秽蝇 *Coenosia unguiligentilis* 新种, 间额棕色, 触角和下颏须褐色, 侧颜约为触角宽的 1/2, 盾片无纵条, 中股无明显前腹鬃; 雄肛尾叶后面观端半部变狭, 侧尾叶末端向前方弯曲。

关键词: 双翅目; 蝇科; 秽蝇属; 新种; 中国

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